Fig. 1A

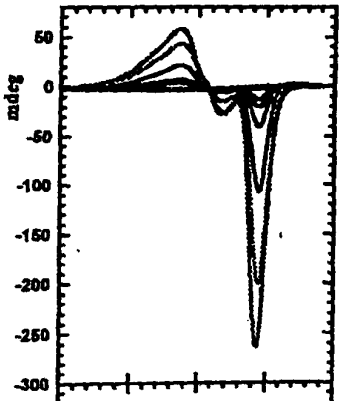


Fig. 1B

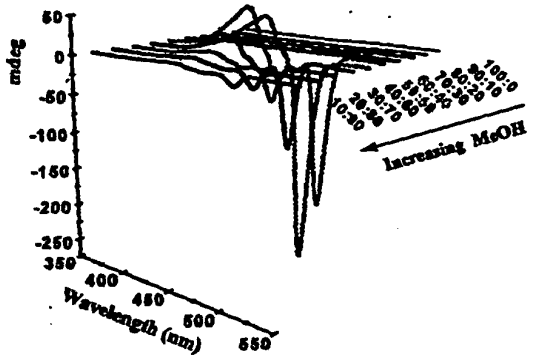


Fig. 1C

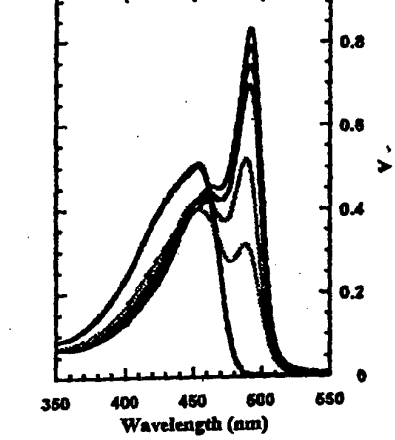


Fig. 1D

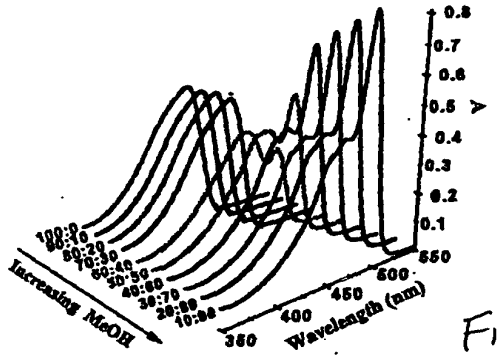


Fig. 1E

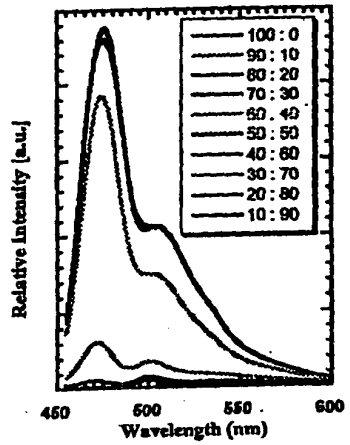
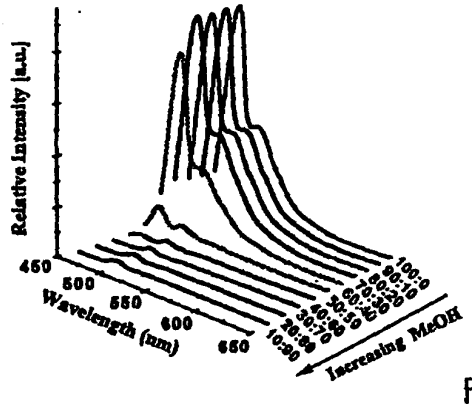


Fig. 1F



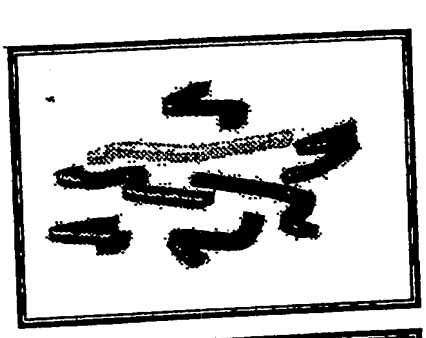


FIG. 2A

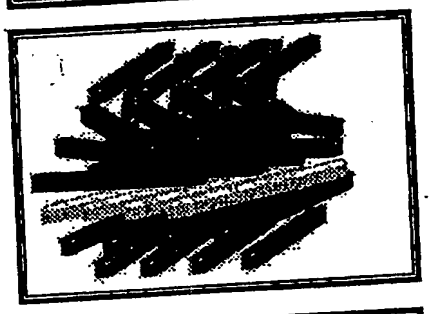


FIG. 2B

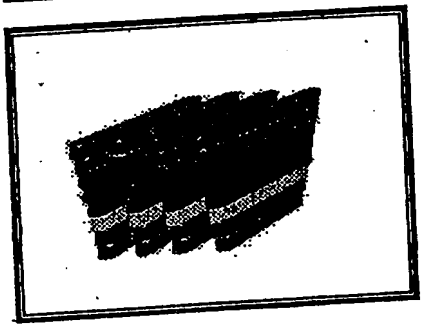


FIG. 2C

FIG. 2D

FIG. 2E

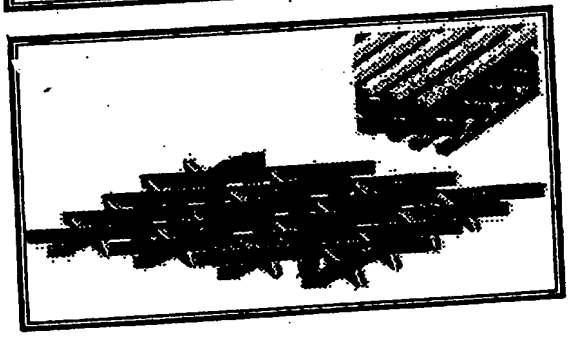


FIG. 2F

FIG. 3A

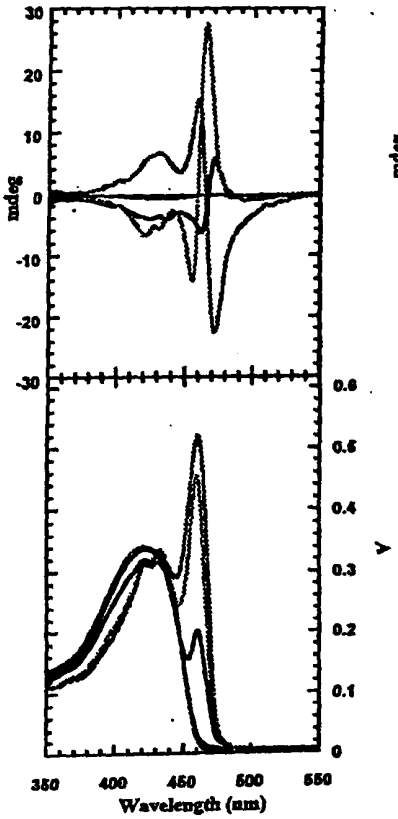


FIG. 3B

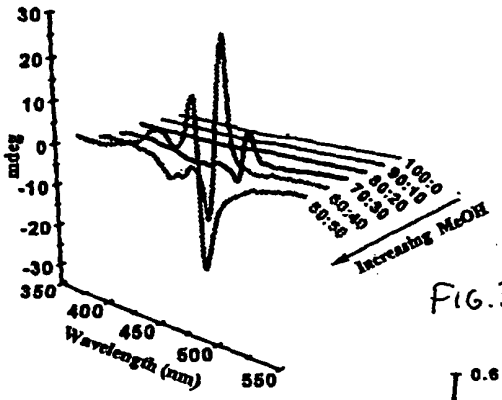


FIG. 3C

FIG. 3D

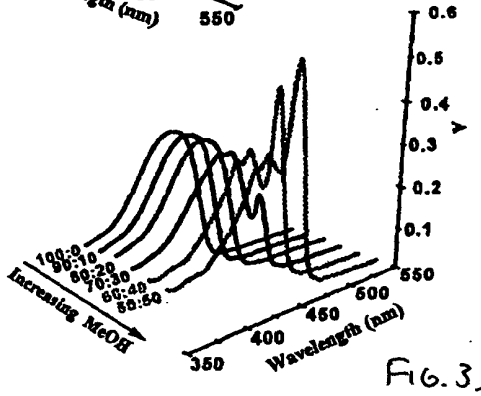


FIG. 3E

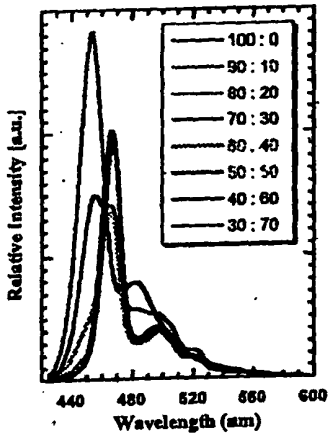
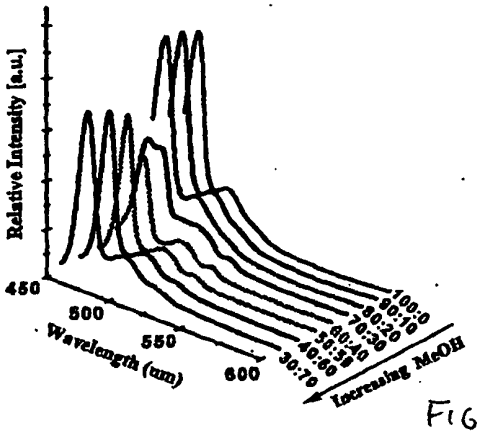


FIG. 3F



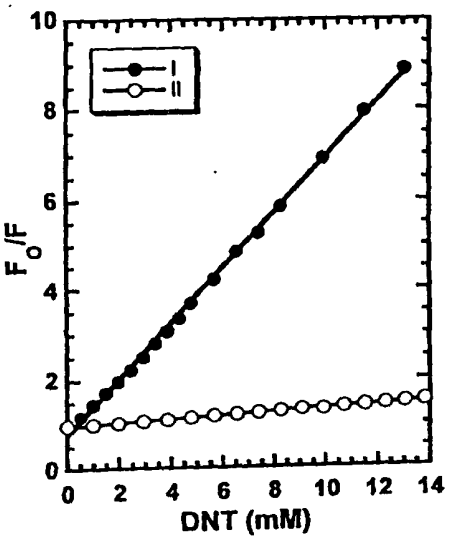

10
8
6
4
2
0
F_0/F
I
II
0 2 4 6 8 10 12 14
DNT (mM)

FIG. 4A

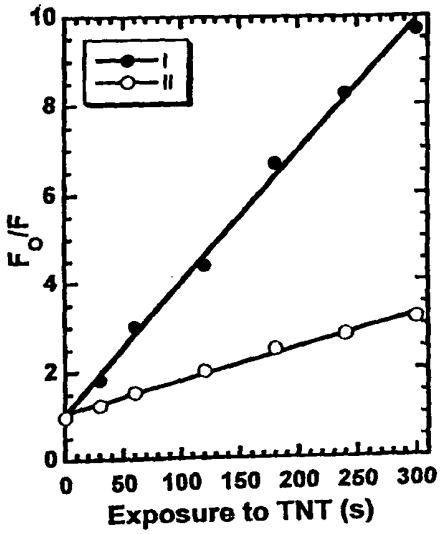

10
8
6
4
2
0
F_0/F
I
II
0 50 100 150 200 250 300
Exposure to TNT (s)

FIG. 4B

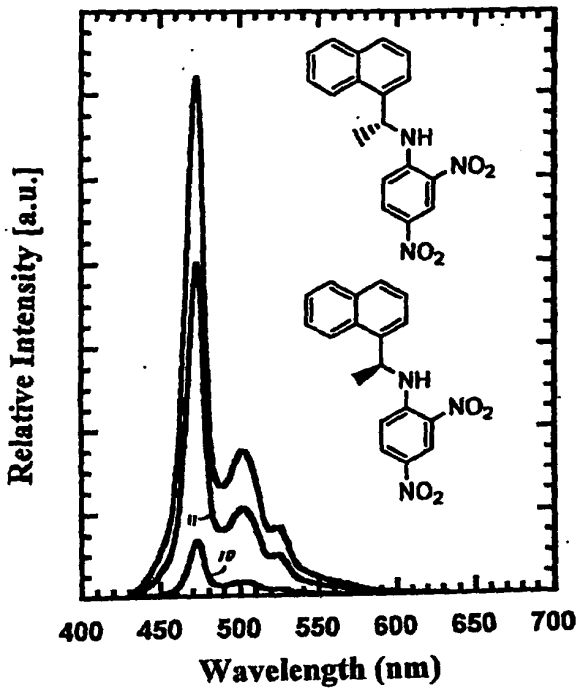
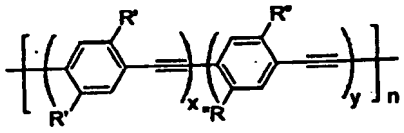

Relative Intensity [a.u.]
400
450
500
550
600
650
700
Wavelength (nm)
NH
NO2
NO2
NH
NO2
NO2

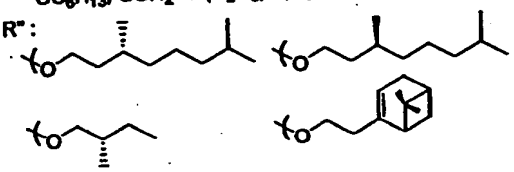
Fig. 5



For x=y=1

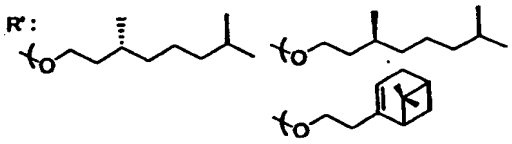
R' : 2-Naphthalene; H; CH_3; i-C_3H_7; OCH_3; OC_2H_5; OC_4H_9; OC_6H_{13}; $OCH_2CH(C_2H_5)C_4H_9$; OC_8H_{17}; $OC_{10}H_{21}$; $OC_{16}H_{33}$;

R" :



For x=1; y=0

R' :



For x=1-4; y=1,3

R' : OC_4H_9; R" :

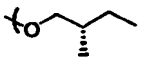
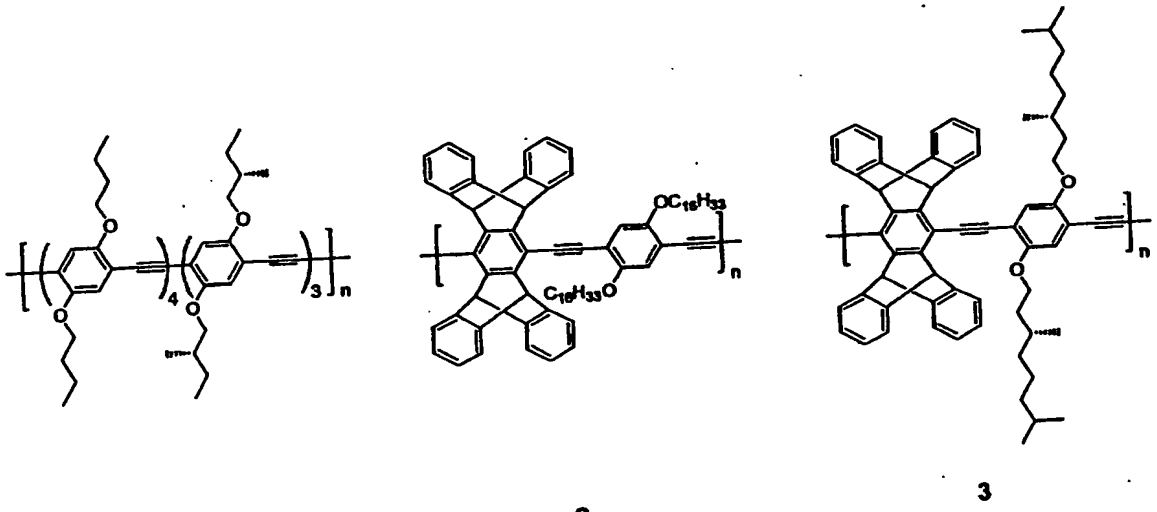


FIG. 6



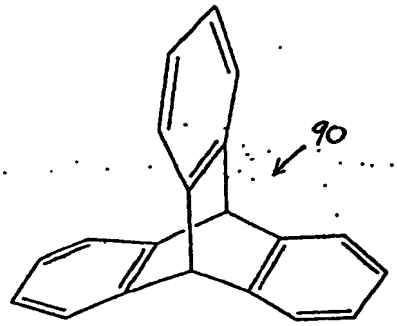
1 2 3

FIG. 7

FIG. 8A

FIG. 8B

FIG. 9A



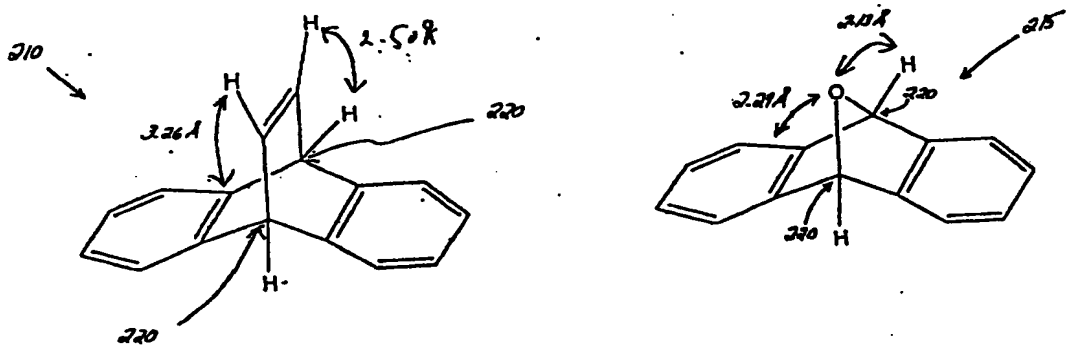


Fig. 9B

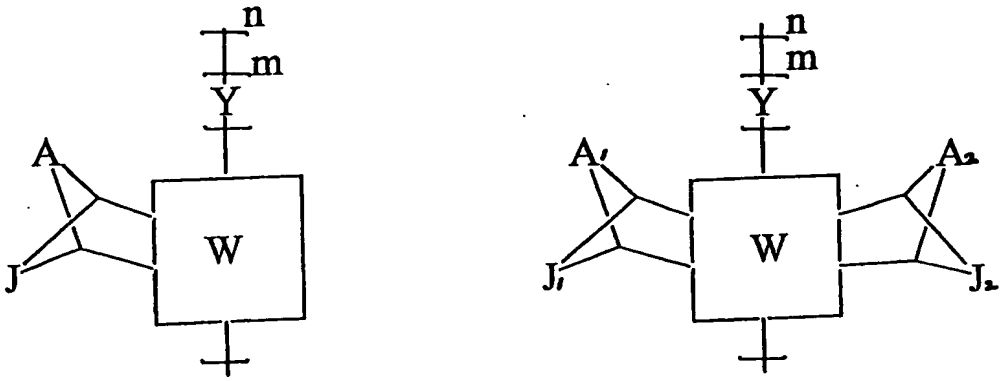


FIG. 10A

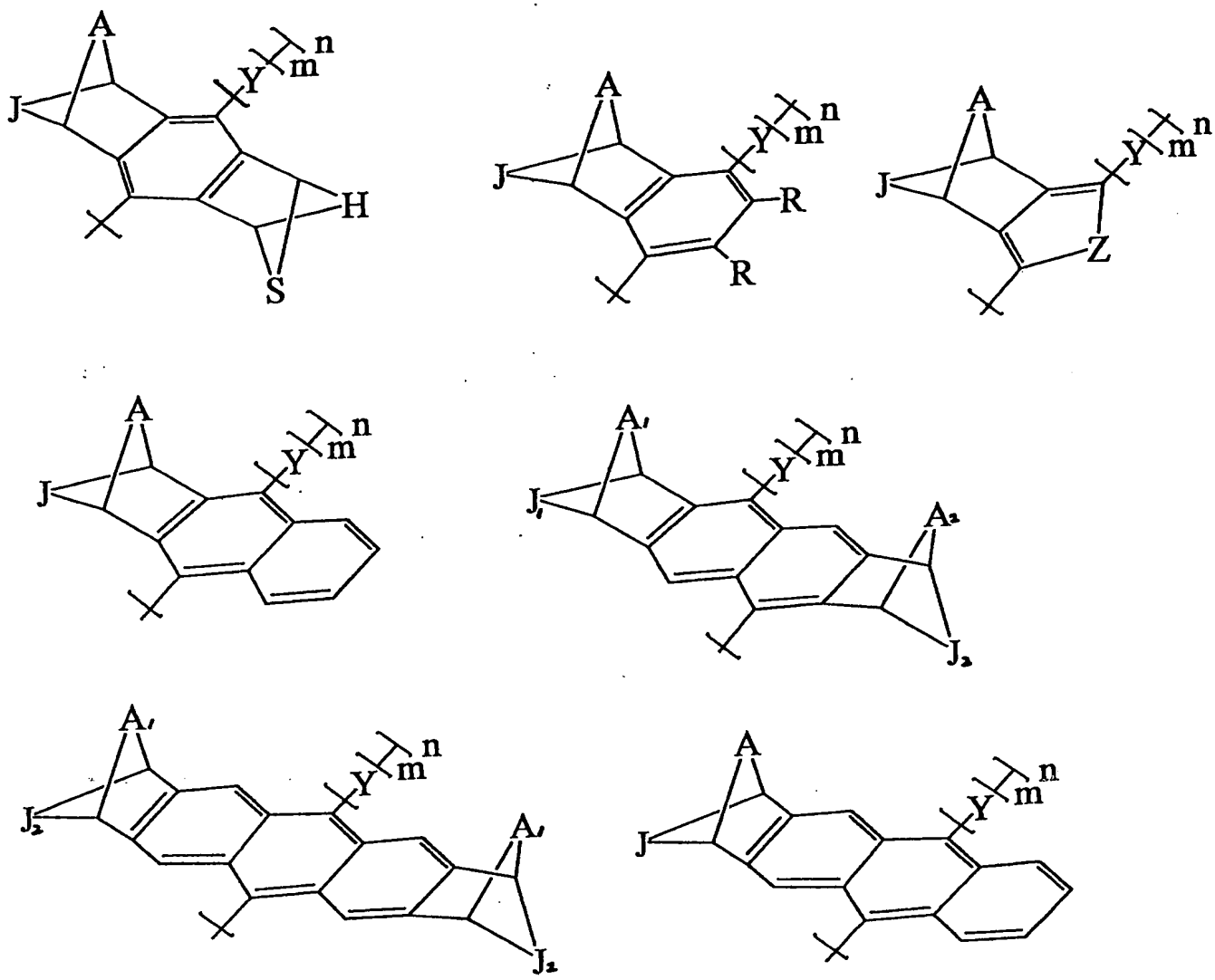


FIG. 10B

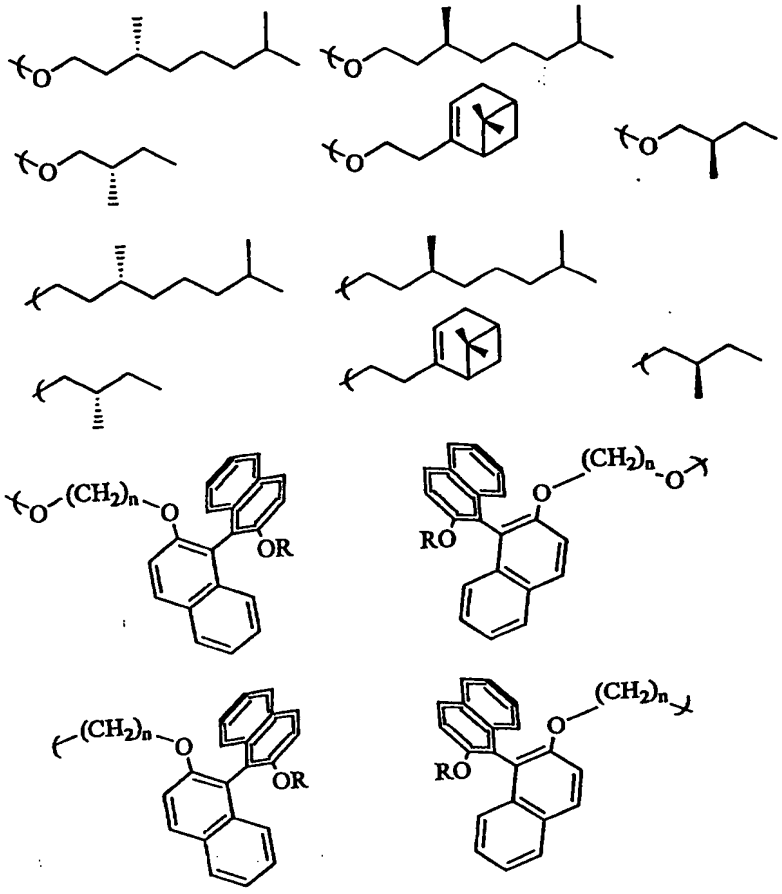


FIG. 10C

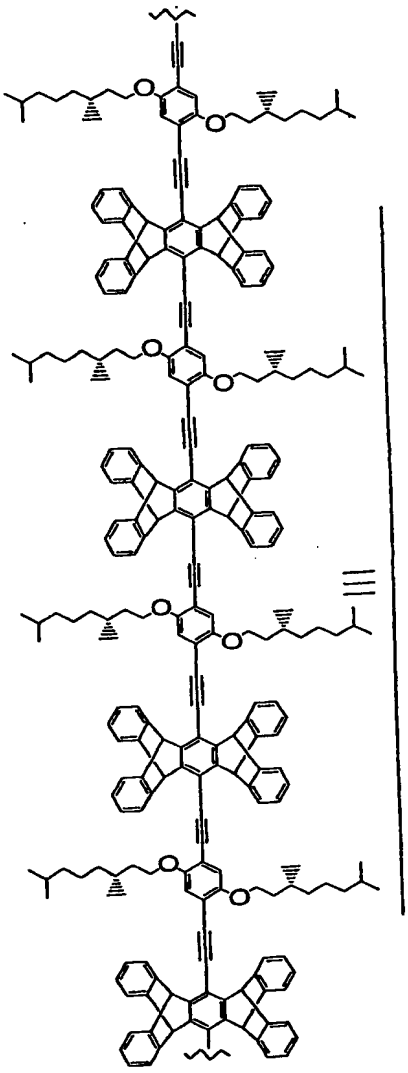


Fig. 1A

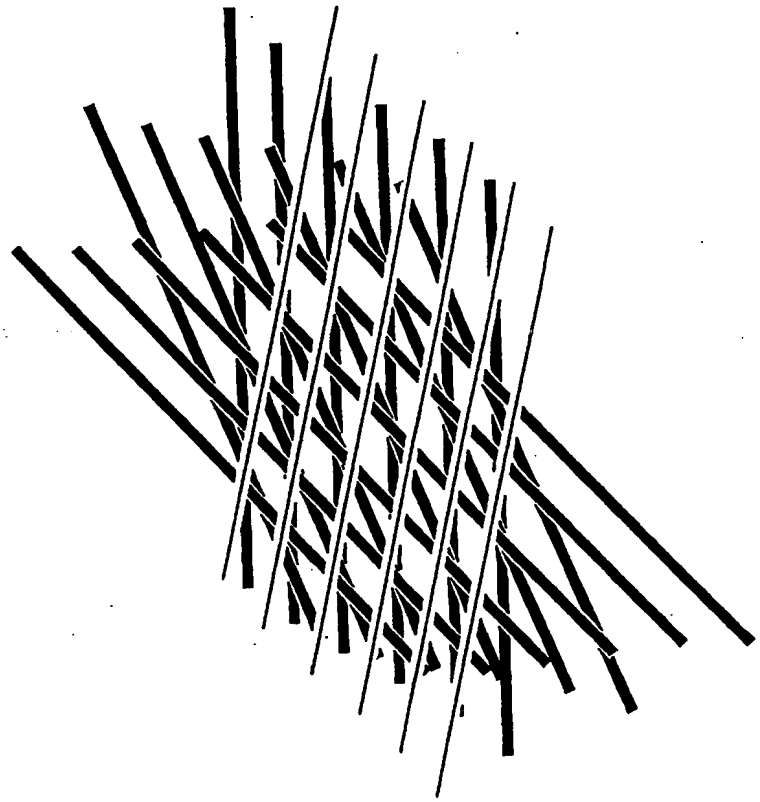


Fig. 1B

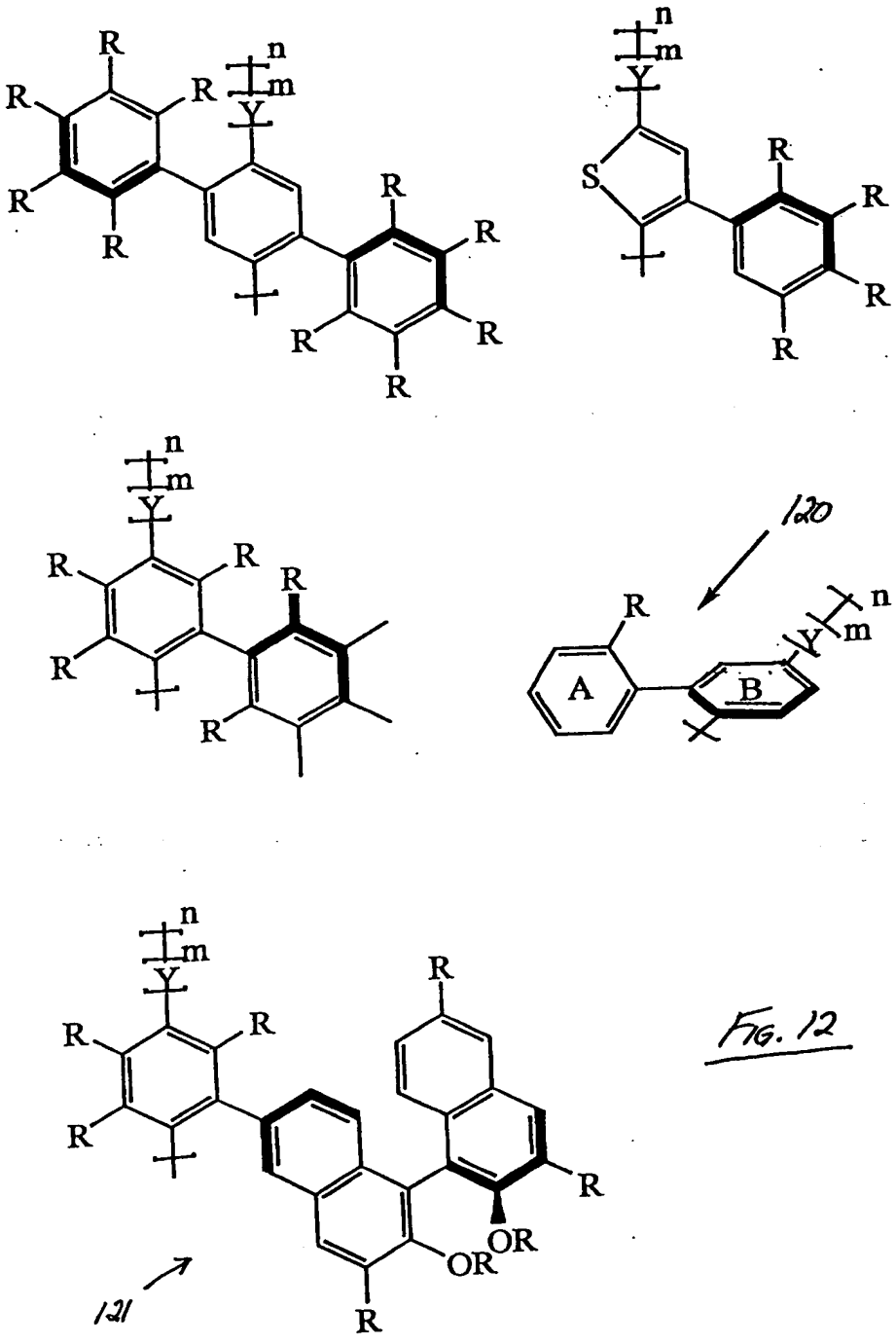


FIG. 12